



TRIODE-POWER AMPLIFIER PENTODE

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Heater Coated Unipotential Ca	athode	
Voltage 6.3	a-c or d-c volts	
Current 0.85	amp.	
Maximum Overall Length	4–5/8"	1
Maximum Seated Height	4–1/16"	
Maximum Diameter	1–13/16"	
Bulb	ST-14	
	dium Shell Octal 8-Pin	
Pin 1-Triode Grid	Pin 5 - Pentode Grid	
Pin 2 - Heater	Pin 6 - Triode Plate Pin 7 - Heater	
Pin 3 - Pentode Plate	Pin 8 - Cathode	
Pin 4 - Pentode Screen Mounting Position	Any	
BOTTOM VIEW (8AY)		1
TRIODE UNIT		
Plate Voltage	285 max. volts	-
Plate Dissipation	1.0 max. watt	
Characteristics - Class A, Amplifier:		
Plate Voltage	250 volts	
Grid Voltage	-25 volts	1
Amp. Factor	6	
Plate Res.	19000 approx. ohms	1
Transcond.	325 µmhos	
Plate Current	4 ma.	
PENTODE UNIT		
Plate Voltage	375 max. volts	
Screen Voltage	285 max. volts	-
Plate Dissipation	8.5 max. watts	
Screen Dissipation	2.7 max. watts	
Typical Operation and Characteristics	- Class A, Amplifier:	1
Plate Voltage	250 volts	
Screen Voltage	250 volts	
Grid Voltage	-16.5 volts	
Peak A-F Grid Voltage	16.5 volts	
Zero-Sig. Plate Current	34 ma.	1
MaxSig. Plate Current	36 ma.	
Zero-Sig. Screen Current	6.5 ma.	
MaxSig. Screen Current	10.5 ma.	
Plate Resistance	80000 approx. ohms	
Transconductance	2500 µmhos	i
Load Resistance	7000 ohms 8 %	
Total Harmonic Distortion		
MaxSignal Power Output	3.2 watts	
PUSH-PULL AMPLIFIE		-
Pentode Unit of 6AD7-G and as	eparate 6F6-G	
Plate Voltage	375 max. volts	1
In circuits where the cathode is not direct the potential difference between heater and low as possible.	ly connected to the heater, cathode should be kept as	
Indicates a change.		

Sept. 2, 1941

DATA



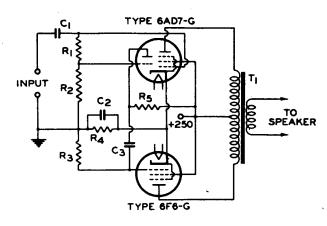


TRIODE-POWER AMPLIFIER PENTODE

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(continued from preceding page)						
Screen Voltage			285 ma	ax. volts		
Plate Dissipation		,	8.5 ma	ax. watts		
Screen Dissipation			2.7 ma	ax. watts		
Typical Operation with Cath	ode Bia	s - Cla	ss AB ₁ A	nplifier:		
Values are for pentode unit of BAD7-G and BP8-G together						
Plate Voltage	250	285	375	volts		
Screen Voltage	250	285	250	volts		
Cathode Resistor	560	470	470	ohms		
Peak A-F Grid to Grid Volta	. 59	64	5 5	volts		
Zero-Sig. Plate Current	36	47.5	41	ma.		
MaxSig. Plate Current	41	54.5	50	ma.		
Zero-Sig. Screen Current	6.7	8.2	6.7	ma.		
Max,-Sig. Screen Current	11.7	13.7	9.2	ma.		
Effec. Load Resistance						
(plate to plate)	14000	12000	16000	ohms		
Total Harmonic Dist.	4	4	2	%		
MaxSig. Power Output	6	8.5	9	watts		

For curves of the pentode unit, refer to Type 6F6.

TYPICAL PUSH-PULL CIRCUIT WITH PHASE INVERTER USING 6AD7-G AND 6F6-G



- Indicates a change.

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